

Manual Tablet Disintegration Testing - Type DIST 3



The **DIST 3** is essentially a three station version of the PTZ S Disintegration Test Apparatus. This instrument offers the attractive combination of cost efficiency and high sample throughput. All three standard disintegration baskets are suspended from a common drive arm which is attached to a single drive motor. All three baskets are in operation at any one time. The orientation of the baskets, which are all USP<701/2040>, EP<2.9.1/2.9.1.2>, JP and others compliant, is from front to back.

The DIST 3 is used for the manual testing of disintegration times of tablets, capsules and other solid dosage forms. The three basket DIST 3 version offers the following features:

- LCD Display informing of running time, temperature, instrument version and serial number
- pre-programmable maximum disintegration time with auto-stop function
- Totally silent operation
- Vibration free movement, stroke height set to 55 mm at 30 strokes/min.
- Disintegration Baskets always stops at highest point
- User adjustable number of strokes
- Digital display of elapsed testing time and auto stop at the end of a run
- Total testing time (pre-selectable) between 1 second to 24 hours
- Small footprint
- Exchangeable baskets for apparatus "B" (30mm tube size) as described in the USP <2040> and EP <2.9.1.2>)

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A silent 24V DC motor drive smoothly moves the 3 disintegration baskets up and down over a distance of 55 mm (each way), 30 times per minute. Every two seconds the stroke rate is re-adjusted; the stroke height is pre-set by the eccentric drive mechanism. The disintegration baskets which hold the glass tubes and discs, are placed each into a stainless steel holder and moved smoothly into the testing medium. Depending on the operating procedure, the test is either automatically stopped if the pre-set time has expired or if the operator aborts the test after he has seen the samples to be disintegrated. The baskets always stop at their highest mechanical position.

The digital LED display shows the elapsed testing time; using the "Recall" key at the keyboard, the pre-set maximum disintegration time can be displayed.

A built-in thermostatically controlled heater warms the water within the Plexiglas (Perspex) bath up to 37°C. A powerful pump is used to circulate the water within the bath. The pre-selected temperature is automatically adjusted by a built-in control sensor. A second sensor is used as a safety device which switches off the heater should the temperature rise above the maximum limit. A thermo fuse and a thermo switch, fixed to the heater, provide additional safety features to protect the system from overheating.

The bath temperature can be stepplessly adjusted. Using a control thermometer the temperature of the test medium can be checked at any time. The standard disintegration baskets are supplied with each 6 glass tubes and each 6 plastic discs. Optionally, the bigger 3 tube basket according to apparatus "B" EP <2.9.1.2> of the USP <2040> can be used without any further modifications.

Technical Data

Display:	LED Display
Keyboard:	function keys
Work stations:	3, all attached to the same stroke arm
Stroke Frequency:	30 strokes/minute
Accuracy:	± 1 stroke
Stroke Height:	55 mm
Accuracy:	± 1 mm
Thermostat:	built-in 1000 W heating tube and circulation pump, 2 digital sensors, overheating protection, adjustable with 30° to 40° C
Accuracy:	± 0.3° C

Dimensions and Weights

Net weight:	approx. 15 kg
Gross weight:	approx. 21 kg
Packaging:	approx. 70 x 50 x 50 cm



"B" Basket, (Test "B" EP <2.9.1.2> and USP <2040>) 33 mm diam., used to test bigger samples order no. 105-2014 incl. glass tubes and disks

We reserve the right to make technical changes without any prior notice

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